Krebs - Stammzell-, Bakterien- Persister-Therapie, CD47, Tetracyclin, Salinomycin, Seneca-Valley-Virus, MikroRNA, Amanitin, Gc-MAF etc.

Cancer Stemm Cells, Bacteria Persister Therapy, CD47, Tetracyclines, Salinomycine, Seneca-valley-virus, MikroRNA, Amanitine, Gc-MAF a.o.

"Die **Tumor- und Neoplasma- Medizin wird im 21. Jahrhunderts** eine Mitochondrien – Filamenten – Mizellen * – Beziehungs * – Medizin sein" (Huismans BD 2014).

➔ Midichloria mitochondrii -> http://www.erlebnishaft.de/gentransfer.pdf

"The **medicine of the 21st century** will be a medicine of mitochondria, filaments, micelles * and relationships * " (Huismans BD 2014).

Krebsstammzellen oder **Tumorstammzellen** sind nach D Bonnet und J Dick das zentrale Element einer **1997** erstmals aufgestellten Theorie zur Entstehung von bösartigen Tumoren.

Cancer stem cells or **tumor stem cells** are by D Bonnet and J Dick the central element of a first time in **1997** established theory on the origin of malignant tumors
Quelle: http://de.wikipedia.org/wiki/Krebsstammzelle

Alfred Knudson's "Two-Hit" Theory of Cancer Causation. https://youtu.be/h_sfOYFJTfU

Bakterien Persister bzw. bakterielle L-Formen sind **Bakterienvarianten** bei denen der Stoffwechsel auf extrem langsam läuft und die deswegen weitaus antibiotikaresistent sind.

Persister bacteria or bacteria L-Forms are **bacteria variants** that run their metabolism in a very clear savings flame and therefore are immune to virtually all antimicrobial agents.

Schwabe RF, Jobin C (2013) **The microbiome and cancer**. Nat Rev Cancer.13, 800–12.
https://www.ncbi.nlm.nih.gov/pubmed/24132111

- ➔ **Bakterielle L-Formen** http://www.erlebnishaft.de/stressvar1.pdf
- ➔ **Bakterien Persister** http://www.xerlebnishaft.de/trotzantibiosepat.pdf
- ➔ **Horizontaler Gentransfer** http://www.erlebnishaft.de/gentransfer.pdf
- ➔ **Biofilme und Quorum sensing** http://www.erlebnishaft.de/kommentbiofilmmed.pdf
- ➔ http://www.erlebnishaft.de/biofilmmed.pdf http://www.xerlebnishaft.de/quorum.pdf
- ➔ **Bakterielle Resistenzmechanismen, Bacterial resistance mechanisms** http://www.xerlebnishaft.de/escape.pdf http://www.xerlebnishaft.de/escape_eng.pdf
- ➔ **Selbst-Muster-Nano** http://www.erlebnishaft.de/selbst_muster_nano.pdf
- ➔ **Virulenz-Inhibitoren** http://www.kabilahsystems.de/virulenz_inhibitoren.pdf

Biofilm und Quorum sensing Therapeutika, Therapeutics:
Makrolide: Azithromycin, Clarithromycin; Lactoferrin, Ajoene aus Knoblauch, Polyphenole, Grape fruit, Lumbrokinase, Nattokinase, Antikoagulation, pH (H2), Samento, Banderol, N-Acetylcystein, Phenothiazine, Acyldepsipeptid (ADEP)
http://www.nature.com/nature/journal/v503/n7476/fig_tab/nature12834_F1.html
Elektromagnetismus und Ultraschall http://www.xerlebnishaft.de/quorum.pdf

Neoplasma and cancer diseases are caused by mitochondrial dysfunction (Warburg 0. 1958) by the microbiome and muations effects eg. in the nucleolinus DNA (Cytoskeleton, Methyl-Cycle) and in the environment of the modifying micro-RNAs, polypeptides and fatty acids. In the consequence of this with you will find cell wall modifications and a functional change of the whole system (Quorum sensing) (Huismans BD, 2014).

Neoplasmen und Krebserkrankungen sind durch mitochondriale Dysfunktion (Warburg 0. 1958) durch das Mikrobiom und durch DNA-muations Effekte z.B. im Nucleolinus des Zellkernes (Zytoskelett, Methyl-Zyklus) und durch modifizierte Mikro-RNAs sowie durch variante Polypeptide und Fettsäuren verursacht. Die Folge davon sind Zell-Wand Funktions- und Gesamt-Systemänderungen (Quorum sensing) (Huismans BD, 2014).

Cave:
Nelson C, Elmendorf S, Mead P (2014) **Neoplasms Misdiagnosed as "Chronic Lyme Disease"** JAMA Intern Med. doi:10.1001/jamainternmed.2014.5426
http://archinte.jamanetwork.com/article.aspx?articleid=1921752

Aber, however :
Jacqueline C, Tasiemski A, Sorci G et al. (2017) **Infections and cancer: the "fifty shades of immunity" hypothesis.** BMC Cancer. 17(1), 257. doi: 10.1186/s12885-017-3234-4.
https://www.ncbi.nlm.nih.gov/pubmed/28403812
« Infectious organisms, that are not oncogenic neither oncolytic, may play a significant role in carcinogenesis, suggesting the need to increase our knowledge about immune interactions between infections and cancer."

Kallick CA, Friedman DA, Nyindo MB (2015) **Could ehrlichial infection cause some of the changes associated with leukemia, myelodysplastic diseases and autoimmune disorders, and offer antibiotic treatment options?** Med Hypotheses. 85(6), 891-3. doi: 10.1016/j.mehy.2015.09.015. Epub 2015 Sep 16. https://www.ncbi.nlm.nih.gov/pubmed/26394545

Hofmann H (2017) **A foot tumour as late cutaneous Lyme borreliosis: a new entity or a variant of an inflammatory proliferative reaction to Borrelia burgdorferi?** Br J Dermatol. 177(4), 906-907. doi: 10.1111/bjd.15844. https://www.ncbi.nlm.nih.gov/pubmed/29052881

Ulfig N (2014) Kurzlehrbuch der Histologie

International Cancer Genome Consortium ICGC

Epstein RJ (2015) **A periodic table for cancer.** Future Oncology. 11(5), 785-800 , DOI 10.2217/fon.14.315 (doi:10.2217/fon.14.315) http://www.futuremedicine.com/doi/full/10.2217/fon.14.315
„Here, it is proposed that treatment strategies could be fine-tuned upfront simply by quantifying tumorigenic spatial (cell growth) and temporal (genetic stability) control losses, as predicted by genetic defects of cell-cycle-regulatory gatekeeper and genome-stabilizing caretaker tumor suppressor genes, respectively. These differential quantifications of tumor dysfunction may in turn be used to create a tumor-specific 'periodic table' that guides rational formulation of survival-enhancing anticancer treatment strategies. »

FDA Approved Drugs for Oncology (2015) https://www.centerwatch.com/drug-information/fda-approved-drugs/therapeutic-area/12/oncologyhttps:/www.centerwatch.com/drug-information/fda-approved-drugs/therapeutic-area/12/oncology

Der interdisziplinäre Beginn der Onkologie in Deutschland war 1903 in Berlin, Charité:
Stahl, Strahl, Vergiftung.
Voswinckel P (2015) **Erinnerungsort Krebsbaracke.** Klarstellungen um das erste interdisziplinäre Krebsforschungsinstitut in Deutschland (Berlin, Charité)

The interdisciplinary beginning in Germany (1903): Scalpel, radiation, poisoning.
Cancer barracks. Clarifications to the first interdisciplinary cancer research institute in Germany (Berlin, Charité)
https://www.dgho.de/gesellschaft/geschichte/dgho-buecher/erinnerungsort-krebsbaracke
https://www.amazon.de/Erinnerungsort-Krebsbaracke-Klarstellungen-interdisziplin%C3%A4re-Krebsforschungsinstitut/dp/3981635426

Diese Standards von 1903 bis 1933 gelten heute noch fast unverändert.
Standards that have been developed 1903-1933 are valid today almost unchanged.

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https://www.aerzteblatt.de/archiv/194466/Onkologie-Krebstherapie-Immunsystem-und-Mikrobiom-das-kuenftige-Triumvirat
https://www.aerzteblatt.de/archiv/194466/Onkologie-Krebstherapie-Immunsystem-und-Mikrobiom-das-kuenftige-Triumvirat#literatur

Prigerson HG et al. (2015) JAMA Oncology Blanke CD, Fromme EK (2015) JAMA Oncology

Hübner J (2015) **Komplementäres und Alternatives: Ohne Vorurteile prüfen**. Deutsches Ärzteblatt 112(14), C518-C521 http://www.aerzteblatt.de/pdf/112/14/a622.pdf
http://www.aerzteblatt.de/archiv/169038/Onkologie-Komplementaeres-und-Alternatives-Ohne-Vorurteile-pruefen
„Nur eine vollständige Transparenz schafft die Basis für eine unabhängige Beurteilung und Bewertung. Einen Sonderweg soll und darf es für alternative Methoden und Komplementärmedizin nicht geben“
"Only complete transparency creates the basis for an independent assessment and review. A special path should not and must not give on alternative methods and Complementary Medicine "

Mellman I, Coukos G, Dranoff G (2011) Cancer immunotherapy comes of age. Nature 480, 480-489. http://www.nature.com/nature/journal/v480/n7378/full/nature10673.html

Weber JS (2015) Immunotherapy: 5 Ways to Stop Cancer
https://www.youtube.com/user/CancerResearchInst?v=3hlGg-3F1uQ

Warburg Hypothese, Warburg hypothesis

Wasserstoff, H2, Vacuolar-type H+ - ATPase (V-ATPase), Katalase, Wasserstoffperoxyd, Katalasemangel in den Tumorzellen,
deficiency of catalase in cancer cells

➔ **PH-Wert** http://www.kabilahsystems.de/ph.pdf

Warburg O et al.(1958) **Partielle Anaerobiose der Krebszellen** und Wirkung der Röntgenstrahlen auf Krebszellen. Max-Planck-Institut für Zellphysiologie, Berlin-Dahlem. In: Jahrbuch 1958 der Max-Planck-Gesellschaft zur Förderung der Wissenschaft e.V., Göttingen. pp 159-211
http://link.springer.com/article/10.1007%2FBF00599078
https://www.researchgate.net/researcher/1958105_O_WARBURG/publications/3
„Zum Krebsstoffwechsel gehört nicht nur die große Gärung, sondern auch die zu kleine Atmung. … Der Abfall der Atmung erfolgt … nicht vor dem Anstieg der Gärung, sondern nachher. … Die Reihenfolge der Ereignisse bei der Entstehung des Krebsstoffwechsels ist also: Zuerst ungeordnetes Wachstum und, damit verbunden, Entkoppelung der Atmung und Anstieg der Gärung, darauf folgend, und zwar beschleunigt durch Sauerstoffmangel, Abfall der Atmung.“

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http://www.ncbi.nlm.nih.gov/pubmed/16938655 http://ajcp.ascpjournals.org/content/126/4/593.long

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«This review offers some insight into the extent of mtDNA mutations, their functional consequences in tumorigenesis, mitochondrial therapeutics, and future clinical application. «

Loureiro R, Mesquita KA, Oliviera PJ et al. (2013) **Mitochondria in Cancer Stem Cells : A Target for Therapy.** RecentPatents on Endocrine, Metabolic and Immune Drug Discovery 7(2) http://cnc.cj.uc.pt/~pauloliv/FCT%20Reports/P19project/P19_2012.pdf

Lamb R, Harrison H, Hulit J (2014) **Mitochondria as new therapeutic targets for eradicating cancer stem cells: Quantitative proteomics and functional validation via MCT1/2 inhibition.** Oncotarget. 5(22), 11029-37. http://www.ncbi.nlm.nih.gov/pubmed/25415228

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« We therefore analyzed mitochondrial DNA (mtDNA) sequences and polymorphic microsatellite repeat loci and found that the genotypes of the neoplastic cells do not match those of their hosts. Our findings suggest that horizontal transmission of `cancer cells` is more widespread in nature than previously supposed".

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➔ **Mitochondrien** http://www.xerlebnishaft.de/mitochondrien.pdf

Aneuploidie – Hypothese, Genommutation – Hypothese und Krebs. Aneuploidy (Genom mutation) and Cancer, Toxine, toxins, mikrochimerismus, microchimerism

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- **Bakterien Stressvarianten, L-Formen, filterable forms (50-200 Nanometer), cell wall defective forms** http://www.erlebnishaft.de/stressvar1.pdf
- **Zytoskelett, Zentromer-kinetosom, Nucleolinus** http://www.xerlebnishaft.de/zytoskelett.pdf
- **RNA-Welt** http://www.xerlebnishaft.de/rna.pdf
- **Immunitaet** http://www.erlebnishaft.de/danger_model.pdf
- **Pathogenitätsfaktoren** http://www.xerlebnishaft.de/bakt_pathogenitaetsfaktoren.pdf
- **Immunsuppressive Virusarten** http://www.erlebnishaft.de/immunsubpressvirus.pdf
- **Virus triggers** http://www.erlebnishaft.de/virustriggers.pdf
- **Virus, Bakterium und Immunsystem** http://www.erlebnishaft.de/virusbaktimmun.pdf
- **Horizontaler Gentransfer** http://www.erlebnishaft.de/gentransfer.pdf
- **Gendynamik** http://www.xerlebnishaft.de/gen_dynamik.pdf
- **Symbiogenese** http://www.erlebnishaft.de/symbiogenese.pdf
- **Selbstorganisation** http://www.erlebnishaft.de/selbst_muster_nano.pdf

Mizellen, micelles

- **Fettsäuren** http://www.kabilahsystems.de/ungesaettfetts.pdf
- **Amine und Peptide** http://www.kabilahsystems.de/biogeneamineundpeptide.pdf
- **Toll like Rezeptoren** http://www.erlebnishaft.de/TLR2_1_3_7_13.pdf

Die Krebs – Stammzell – Hypothese, the cancer stem cell hypothesis

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http://www.senologie.org/fileadmin/media/documents/Presse/Schneeweiss_Zirkulierende_Tumorzellen_im_Blut_Pressetext_FIN.pdf
„Zusammenfassend sprechen die Studien und Forschungsergebnisse für eine hohe klinische und wissenschaftliche Relevanz des Nachweises von CTC im Blut von Patientinnen mit Brustkrebs. Aufgrund der bisherigen Daten könnte die CTC-Messung mit dem CellSearch™ Systems schon jetzt zur Unterstützung der klinischen Entscheidungsfindung in bestimmten Einzelfällen in der metastasierten Situation sinnvoll sein“.
http://www.adnagen.com/hosting_i24/daten/Objekte/Download_Dateien/Zusammenfassung.pdf

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Telefon: 0800 - 420 30 40, täglich kostenlos von 8 bis 20 Uhr
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Zuckerbindende Proteine, Lectine

Lectine „[sind] … zuckerbindende Proteine ohne enzymatische Aktivität. … Bei Säugern dienen sie der Zell-Zell-Erkennung. Außerdem wirken sie mitogen und stimulieren die interzelluläre Kommunikation durch Freisetzung von Botenstoffen". -> Lectin-Histochemie.
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CD47 http://en.wikipedia.org/wiki/CD47

CD47 (Cluster of Differentiation 47) auch als Integrin-assoziiertes Protein (IAP) bekannt.
CD47 ist ein Transmembran-Protein, das beim Menschen durch das CD47-Gen kodiert wird.
CD47 gehört zur Superfamilie der Immunglobuline.
CD47 ist in einer Reihe von zellulären Prozessen, einschließlich der Apoptose, Proliferation, Adhäsion und Migration beteiligt. Darüber hinaus spielt es eine wichtige Rolle bei der Immun- Antwort und bei der Angiogenese.
CD47 wird ubiquitär in menschlichen Zellen exprimiert.
CD47 wird in vielen Tumorzellen überexprimiert.

CD47 (Cluster of Differentiation 47) also known as integrin associated protein (IAP).
CD47 is a transmembrane protein that in humans is encoded by the CD47 gene.
CD47 belongs to the immunoglobulin superfamily.
CD47 is involved in a range of cellular processes, including apoptosis, proliferation, adhesion, migration. Furthermore, it plays a key role in immune and angiogenic responses.
CD47 is ubiquitously expressed in human cells.
CD47 has found to be overexpressed in many different tumor cells.
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«Matrix metalloproteinases (MMPs) make up the majority of ECM degrading enzymes implicated in cancer metastasis. The potent MMP inhibitory activities of tetracyclines, especially their chemically modified analogs, combined with their relatively well tolerated pharmacological profile, led several researchers to investigate their anticancer potential in a variety of cancers, including melanoma, lung, breast and prostate cancers. «

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Salinomycin

Salinomycin ist ein in der Tiermedizin zugelassenes Polyether-Antibiotikum gegen Protozoen

Salinomycin **is an approved antibiotic** http://en.wikipedia.org/wiki/Salinomycin **in veterinary medicine against protozoa**
http://www.vetpharm.uzh.ch/reloader.htm?wir/00005300/3104_04.htm?wir/00005300/3104_00.htm

Eine Zulassung für die Humanmedizin besteht nicht.
An authorization for human medicine does not exist.

„Die Einnahme von Salinomycin (Reinsubstanz oder Tierfutter-Zusatzstoff 10%-12%) oral ist HOCHGIFTIG und LEBENSGEFÄHRLICH und darf NIEMALS erfolgen.

Es kommt u. a. zu lebensgefährliche Rhabdomyolysen (Auflösung der Muskulatur)

Salinomycin INTRAVENÖS ist in einer bestimmten Dosis sehr gut verträglich und zeigt gewisse Erfolge hinsichtlich einer Tumorregression.

The use of salinomycin (pure substance or animal feed additive 10% -12%) is orally HIGH TOXIC and HAZARDOUS LIVE and may NEVER be done.

It depends, inter alia, to life-threatening rhabdomyolysis (dissolution of the muscles). Salinomycin INTRAVENOUSLY is very well tolerated in a single dose, showing some success in terms of tumor regression.“ Quelle: http://www.krebs-kompass.de/showthread.php?t=51961

„Salinomycin verursacht einen Ausstrom von Kationen, bevorzugt Kalium, aus dem Zytoplasma und aus den Mitochondrien. Die verminderte intrazelluläre Kalium-Konzentration führt zur Entkopplung der oxidativen Phosphorylierung und induziert damit den Zelltod.“ Quelle: http://flexikon.doccheck.com/de/Salinomycin

„Salinomycin is a polyether potassium ionophore antibiotic, which promotes cation movement across biological membranes via exchange-diffusion. As a result of this cation exchange, the transmembrane gradients are altered, which leads to changes in cellular function and metabolism. In addition, Salinomycin acts as a chelating agent towards monovalent cations such as sodium and potassium ions. Alternate studies suggest that Salinomycin selectively inhibits cancer stem-like cells.“
Quelle: http://www.scbio.de/datasheet-253530-salinomycin.html

Salinomycin besitzt eine geringe therapeutische Breite. Bei akzidentellen Vergiftungen traten beim Menschen unter anderem Nausea, Photophobie, neurologische Störungen und Rhabdomyolyse auf.

Salinomycin has a narrow therapeutic index. When accidental poisoning in humans, among other things occurred nausea, photophobia, neurological disorders and rhabdomyolysis.“ Quelle: http://flexikon.doccheck.com/de/Salinomycin

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Seneca-Valley-Virus

Ein natürlich vorkommendes onkolytisches Virus, das einzige bekannte apathogene

Virus aus der Familie Picornaviridae, ist das Seneca-Valley-Virus.

A naturally occurring oncolytic virus, the only known non-pathogenic virus of the family Picornaviridae, is the Seneca Valley virus.

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Nagalase Test
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MicroRNA

„MicroRNA, abgekürzt miRNA oder miR, sind kurze, hoch konservierte, nichtcodierende RNAs, die eine wichtige Rolle in dem komplexen Netzwerk der Genregulation, insbesondere beim Gen-Silencing spielen. MicroRNAs weisen im Allgemeinen eine Größe von 21 bis 23 Nukleotiden (nt) auf.

MicroRNA, miRNA or miR abbreviated, are short, highly conserved, non-coding RNAs that play an important role in the complex network of gene regulation, particularly in gene silencing. miRNAs generally have a size of 21 to 23 nucleotides (nt).”
Quelle, source: Wikipedia http://de.wikipedia.org/wiki/MicroRNA

„…Wir sind natürlich nicht sicher, dass es so ablief. Aber das vorgeschlagene Prozedere scheint bei weitem das einfachste und wahrscheinlichste zu sein, um von der RNA-Welt, die nach allgemeiner Übereinstimmung zuerst da war, zur heutigen DNA-RNA-Welt zu gelangen. Wie eine populäre Theorie behauptet, sind in Retroviren bis auf den heutigen Tag Spuren dieser schicksalhaften Ereignisse erhalten.“

"... We are of course not sure it expired so. But the proposed procedure seems by far to be easiest and most likely to attain the RNA world, which, by common consent was first to arrive at the current DNA-RNA world. As a popular theory claims are in retroviruses until today traces of this fateful event. "

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„Abstract MicroRNAs (miRNAs) have been uncovered as important posttranscriptional regulators of nearly every biological process in the cell. Furthermore, mounting evidence implies that miRNAs play key roles in the pathogenesis of cancer and that many miRNAs can function either as oncogenes or tumor suppressors. Thus, miRNAs have rapidly emerged as promising targets for the development of novel anticancer therapeutics. The development of miRNA-based cancer therapeutics relies on restoring the activity of tumor suppressor miRNAs using double-stranded miRNA mimics or inhibition of oncogenic miRNAs using single-stranded antisense oligonucleotides, termed antimiRs. In the present review, we focus on recent advancements in the discovery and development of miRNA-based cancer therapeutics using these 2 approaches. In addition, we summarize selected studies, in which modulation of miRNA activity in preclinical cancer models in vivo has demonstrated promising therapeutic potential."

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Amanitin und Antamanid

Alpha-Amanitin (Amatoxine aus Amanita phalloides (Grüner Knollenblätterpilz) inhibiert vor allem die eukaryotische RNA-Polymerase II und III, nicht aber I. Die prokaryotischen RNA-Polymerasen werden nicht inhibiert. Die Aktivität der eukaryotischen RNA-Polymerasen soll in Tumorzellen nahezu ungebremst sein.

Alpha-amanitin (amatoxins) Amanita phalloides from (Green Amanita mushroom) inhibits mainly the eukaryotic RNA polymerase II and III, but not I. The prokaryotic RNA polymerases are not inhibited. In tumor cells, the activity of the eukaryotic RNA polymerases possibly are continuing almost without relent.

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„Conclusion This preclinical study suggests that anti-EpCAM antibody conjugates with α-amanitin have the potential to be highly effective therapeutic agents for pancreatic carcinomas and various EpCAM-expressing malignancies."

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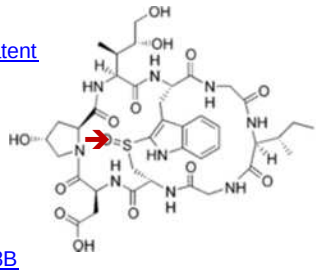

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Bioresonance therapy is not part of the spectrum of methods of science medicine.
http://de.wikipedia.org/wiki/Bioresonanztherapie http://en.wikipedia.org/wiki/Bioresonance_therapy

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